

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



Rec'd PCT/PTO 09 MAY 2005



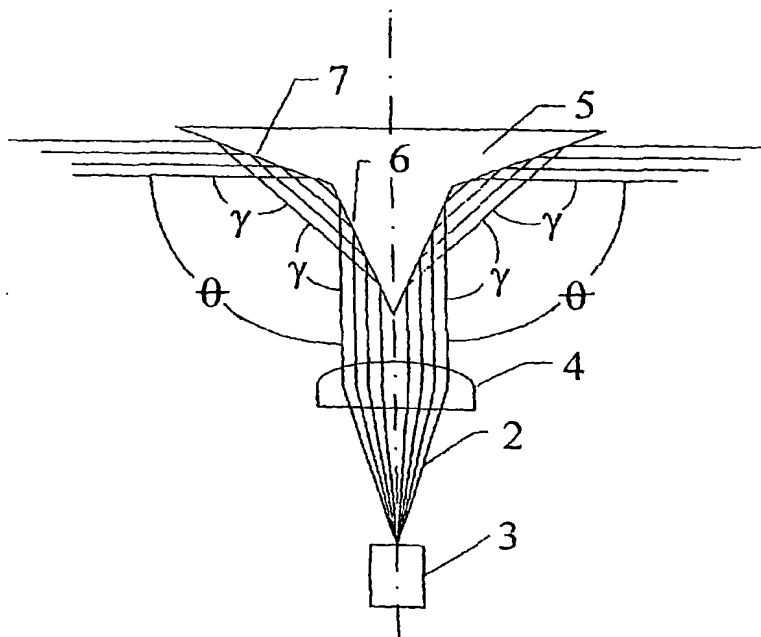
(43) International Publication Date  
27 May 2004 (27.05.2004)

PCT

(10) International Publication Number  
WO 2004/044641 A1

- (51) International Patent Classification<sup>7</sup>: G02B 27/64, 5/09, G01J 1/06
- (21) International Application Number: PCT/SE2003/001665
- (22) International Filing Date: 28 October 2003 (28.10.2003)
- (25) Filing Language: Swedish
- (26) Publication Language: English
- (30) Priority Data:  
0203323-1 11 November 2002 (11.11.2002) SE
- (71) Applicant (for all designated States except US): ELIN-NOVA HB [SE/SE]; Skarpgränd 5, S-187 41 Täby (SE).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): GULDEVALL, Ulf [SE/SE]; Skarpgränd 5, S-187 41 Täby (SE).
- (74) Agents: STRANDIN, Heléne et al.; Bergensträhle & Lindvall AB, Box 17704, S-118 93 Stockholm (SE).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DEVICE FOR CONVERTING LIGHT



(57) Abstract: A device for converting light from, for example, a laser, VCSEL (vertical cavity surface emitting laser) or light emitting diode/diodes to a plane of propagation, comprising a collimated or focused light emitter, characterized in that a full or a portion or several portions of a rotational symmetrical double reflecting component is fixedly provided coaxially in the path of beams from the collimated or focused light emitter so that the light is deflected in a desired angled plane of propagation which extends up to 360° around the double reflecting component.